

01/10/02
JC355 U.S. PTO**UTILITY****PATENT APPLICATION
TRANSMITTAL**

Attorney Docket No.

500792.05

January 10, 2002

First Inventor or Application Identifier

Timothy B. Cowles et al.

Title

REFRESH CONTROLLER AND ADDRESS REMAPPING
CIRCUIT AND METHOD FOR DUAL MODE FULL/REDUCED
DENSITY DRAMS

Only for nonprovisional applications under 37 CFR § 1.53(b))

Express Mail Label No.

EL 872041390 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Sheet (+ copy)
(Submit an original and a duplicate for fee processing)

2. Applicant(s) Claim(s) Small Entity Status

3. Specification [Total Pages]
(preferred arrangement set forth below)

40

- Descriptive Title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. Drawing(s) (35 USC 113) [Total Sheets]

4

5. Oath or Declaration [Total Pages]

3

- a. Newly executed (original or copy)

- b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)

- i. DELETION OF INVENTOR(S)
Signed statement attached deleting
inventor(s) named in the prior application,
see 37 CFR 1.63(d)(2) and 1.33(b)

6. Application Data Sheet (37 C.F.R. 1.76)

7. CD-ROM or CD-R in duplicate, large table or Computer
Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
- a. Computer-Readable Form (CRF)
- b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
- c. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Certification Under 35 U.S.C. 122(b)(2)(B)(i)
10. Assignment Papers (cover sheet & document(s))
11. 37 CFR 3.73(b) Statement
(when there is an assignee) Power of Attorney
12. English Translation Document (if applicable)
13. Preliminary Amendment Total Pages 2
14. Return Receipt Postcard
15. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
16. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
17. Other: Certificate of Express Mail
Check

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment

Continuation Divisional Continuation-In-Part (CIP) of prior Application No.: 09/803,365 Filed March 8, 2001

Prior application information: Examiner VanThu Nguyen Group / Art Unit 2824

Incorporation By Reference (useable if box 5b is checked)

The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

CORRESPONDENCE ADDRESS

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TYPED or PRINTED NAME Edward W. Bulchis

REGISTRATION NO. 26,847

SIGNATURE Edward W. BulchisDate January 9, 2002

FEE TRANSMITTAL SHEET (FOR FY 2001)

Complete if Known	
Express Mail No.	EL 872041390 US
Filing Date	Concurrently Herewith
First Named Inventor	Timothy B. Cowles et al.
Group Art Unit	Not Yet Assigned
Examiner	Not Yet Assigned
Atty. Docket Number	500792.05

METHOD OF PAYMENT (Check One)

1. The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No.: 50-1266; Deposit Account Name: DORSEY & WHITNEY LLP

2. Check Enclosed

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
101	740	201	370	<input checked="" type="checkbox"/> Utility Filing Fee
106	330	206	165	<input type="checkbox"/> Design Filing Fee
108	740	208	370	<input type="checkbox"/> Reissue Filing Fee
114	160	214	80	<input type="checkbox"/> Provisional Filing Fee

Subtotal (1) \$ 740

2. EXTRA CLAIM FEES

Current Claims	Prior	Extra	Fee	Fee Paid
Total	8	- 20	= 0	x \$ 18 = \$ 0
Ind.	4	- 3	= 1	x \$ 84 = \$ 84
IMultiple Dependent Claims			x \$	= \$

Subtotal (2) \$ 84

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent Claim
109	80	209	40	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 and over original patent

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee paid
		105	130	205	65 Surcharge - Late filing fee or oath
		127	50	227	25 Surcharge - late provisional filing fee or cover sheet
		139	130	139	130 Non-English specification
		147	2,520	147	2,520 For Filing a Request for Reexamination
		195	300	196	300 Publication (early or Republication)
		115	110	215	55 Extension for reply within first month
		116	400	216	200 Extension for reply within 2 nd month
		117	920	217	460 Extension for reply within 3 rd month
		118	1,440	218	720 Extension for reply within 4 th month
		128	1,960	280	980 Extension for reply within 5 th month
		120	320	220	160 Filing a brief in support of an appeal
		121	280	270	140 Request for oral hearing
		148	110	248	55 Terminal Disclaimer Fee
		140	110	240	55 Petition to revive – unavoidable
		141	1,280	241	640 Petition to revive – unintentional
		142	1,280	242	640 Utility/Reissue issue fee (+ advance copies)
		143	460	243	230 Design issue fee (+ advance copies)
		122	130	122	130 Petitions to the Commissioner
		123	50	123	50 Petitions related to provisional applications
		126	180	126	180 Submission of IDS
		581	40	81	Recording each patent assignment per property (times number of properties)
		179	740	279	370 Request for Continued Examination (RCE)
					Subtotal (3) \$0

Total Amount of Payment: \$824

Submitted by:

Name: Edward W. Bulchis

Reg. No.: 26,847

Telephone: (206) 903-8800

Signature:

Date:

January 9, 2002

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicants : Timothy B. Cowles, Michael A.
Shore and Patrick J. Mullarkey

Attorney Docket No.: 500792.05

Filed : Concurrently Herewith

Title : REFRESH CONTROLLER AND ADDRESS REMAPPING CIRCUIT AND METHOD
FOR DUAL MODE FULL/REDUCED DENSITY DRAMSGENERAL AUTHORIZATION

Box Patent Application
Commissioner of Patents
Washington, D.C. 20231

Sir:

With respect to the above-identified application, the Commissioner is authorized to charge any fees under 37 C.F.R. §§ 1.16 and 1.17 which may be required and to treat any concurrent or future reply requiring a petition for an extension of time under 37 C.F.R. § 1.136(a)(3) for its timely submission as incorporating a petition therefor for the appropriate length of time and to charge any fees which may be required during the course of prosecution, or credit any overpayment, to Deposit Account No. 50-1266.

Date

January 9, 2002

Edward W. Bulchis
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J1050

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Timothy B. Cowles, Michael A. Attorney Docket No.: 500792.05
Shore and Patrick J. Mullarkey

Filed : January 10, 2002

Title : REFRESH CONTROLLER AND ADDRESS REMAPPING CIRCUIT AND
METHOD FOR DUAL MODE FULL/REDUCED DENSITY DRAMS

J1050 U.S. PTO
10/04/3682
01/10/02

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

BOX PATENT APPLICATION

Commissioner for Patents
Washington, DC 20231

Sir:

I hereby certify that the enclosures listed below are being deposited with the United States Postal Service "EXPRESS MAIL Post Office to Addressee" service under 37 C.F.R. § 1.10, Mailing Label Certificate No. EL 872041390 US, on January 10, 2002, addressed to Box Patent Application, Commissioner for Patents, Washington, DC 20231.

Respectfully submitted,
DORSEY & WHITNEY LLP



/ for West Courier

EWB:dms

Enclosures:

Postcard
Check
PTO/SB/05 Utility Patent Application Transmittal
Application Data Sheet
Fee Transmittal Sheet (+ copy)
General Authorization
Preliminary Amendment
Specification, Claims, Abstract (40 pages)
4 Sheets of Drawings (Figures 1-5)
Declaration
Election and Power of Attorney
Information Disclosure Statement
Form PTO-1449